

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AYCCF

DATE: MAR 27 1980

SUBJECT: Potential Hazardous Site Inspection
Aluminum Recycling Corp. (Trentwood), Spokane, Washington

FROM: James Hileman
Sanitary Engineer *JH*

TO: John Barich, Manager
Uncontrolled Hazardous Waste Site Program

THRU: Ben Eusebio, Chief *BE*
Surveillance Branch

On February 19, 1980 a preliminary hazardous waste inspection was performed at the Aluminum Recycling Corp. plant located at N. 2217 Sullivan St., Spokane, Washington.

Participants

Mr. James Hileman	EPA, Seattle
Mr. Jim Malm	DOE, Washington
Mr. Richard E. Gaffney	Aluminum Recycling Corp.

The inspection began approximately 1600 with discussion of inspection purpose and plant operations as related to waste generation and disposal practices.

Process

- 1) Concentrates dross, obtained on the open market, for Aluminum extraction at the Hillyard plant.
- 2) Reconcentrates waste from the Hillyard plant.
- 3) Recovers salt from the Hillyard plant waste. The salt is then reused at Hillyard.

Dross enters the process as salt, aluminum, and aluminum oxide. Dross is mixed with a water stream which dissolves the salt. Most of the aluminum is screened out of the process water and dried in a furnace. After drying, the concentrated aluminum is transported by truck to the companys Hillyard plant for aluminum recovery. The process water passes through two sedimentation basins to remove the remaining aluminum oxide. Salt is reclaimed from the process water by evaporation.

Wastes

- 1) Aluminum oxide removed from the sedimentation tanks.



Comments

Aluminum Recycling Corp. is operating a closed recovery process. Process water is completely recycled. Salt is recovered from the salt slag waste from their Hillyard plant and sent back through the process. The aluminum remaining in Hillyard waste slag is reconcentrated and recovered. Aluminum oxide, collected in the settling basins, is sold to cement and thermite manufacturers. Demand for aluminum oxide has exceeded their production. They expect to sell all of the remaining oxide within two years.

Recommendation

Ground water contamination might occur from leachate off the plant site in general. Ground water data from nearby wells should be checked.

INTER-OFFICE COMMUNICATION

ENVIRONMENTAL PROTECTION AGENCY

Aluminum
Recycling

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Aluminum



Recovery

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Raw material processing area.



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Aluminum Recovery Corp.

waste water settling Tank





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Aluminum Recovery Corp -
waste water settling Tank.

